

1405349_1.TXT
SEQUENCE LISTING

<110> Kraynack, Brian A.
Baker, Brenda F.
Bhat, Balkrishen
Swayze, Eric
Griffey, Richard H.

<120> DOUBLE STRANDED COMPOSITIONS COMPRISING A 3'-ENDO MODIFIED STRAND
FOR USE IN GENE MODULATION

<130> ISIS-5799/CHEM0021USA

<140> US 10/561,324
<141> 2006-04-19

<150> PCT/US2004/017487
<151> 2004-06-03

<150> US 60/568,140
<151> 2004-05-04

<150> US 60/531,566
<151> 2003-12-19

<150> US 60/507,250
<151> 2003-09-29

<150> US 60/480,048
<151> 2003-06-20

<160> 38

<170> PatentIn version 3.5

<210> 1
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 1
uuugucucug guccuuacuu 20

<210> 2
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 2
aaguaaggac cagagacaaa 20

<210> 3
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 3
 tgtctctggt ccttactt 18

<210> 4
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 4
 tttgtctctg gtccttactt t 21

<210> 5
 <211> 20
 <212> RNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 5
 cugcuagccu cuggauuuga 20

<210> 6
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic oligonucleotide
 <220>
 <221> misc_feature
 <222> (1)..(19)
 <223> Bases at these positions are RNA
 <400> 6
 cugcuagccu cuggauuugt t 21

<210> 7
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic oligonucleotide
 <220>
 <221> misc_feature
 <222> (1)..(19)
 <223> Bases at these positions are RNA

<400> 7
caaauccaga ggcuagcagt t 21

<210> 8
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(19)
<223> Bases at these positions are RNA

<400> 8
uuugucucug guccuuacut t 21

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(19)
<223> Bases at these positions are RNA

<400> 9
aguaaggacc agagacaaat t 21

<210> 10
<211> 12
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 10
cgcgauuucg cg 12

<210> 11
<211> 12
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 11
gcgcuaaagc gc 12

<210> 12
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<400> 12
 tccgtcatcg ctcttcaggg 20

<210> 13
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<400> 13
 gtgcgcgcga gcccgaaatc 20

<210> 14
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<400> 14
 atgcattctg cccccaagga 20

<210> 15
 <211> 20
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<400> 15
 ucaaauccag aggcuaagcag 20

<210> 16
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<220>
 <221> misc_feature
 <222> (1)..(9)
 <223> Bases at these positions are RNA

<400> 16
 augaagaaug uauuuaccct t 21

<210> 17
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<220>
 <221> misc_feature
 <222> (1)..(19)
 <223> Bases at these positions are RNA

<400> 17
 cagucagagg cgcuauugt t 21

<210> 18
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<220>
 <221> misc_feature
 <222> (1)..(19)
 <223> Bases at these positions are RNA

<400> 18
 ggguaauac auucucaut t 21

<210> 19
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<220>
 <221> misc_feature
 <222> (1)..(9)
 <223> Bases at these positions are RNA

<400> 19
 cacauagcgc cucugacugt t 21

<210> 20
 <211> 20
 <212> RNA
 <213> Artificial Sequence

```

<220>
<223> Synthetic oligonucleotide

<400> 20
acacauagcg ccucugacug 20

<210> 21
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 21
cagucagagg cgcuaugugu 20

<210> 22
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 22
acgtaacggc cctgtctagg 20

<210> 23
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 23
tttatcgctt ctcgttgctt 20

<210> 24
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 24
aagcaacgag aagcgataaa 20

<210> 25
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

```

<400> 25		
ugucauauuc cuggauccuu		20
<210> 26		
<211> 20		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 26		
aaggauccag gaauaugaca		20
<210> 27		
<211> 20		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 27		
uccuggaucc uucaccaaug		20
<210> 28		
<211> 20		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 28		
cauuggugaa ggauccagga		20
<210> 29		
<211> 20		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 29		
ucuuaucacc uuuagcucua		20
<210> 30		
<211> 20		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 30		
uagagcuaaa ggugauaaga		20

<210> 31
 <211> 20
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<400> 31
 auacucagaa ggugucuucu 20

<210> 32
 <211> 20
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<400> 32
 agaagacacc uucugaguau 20

<210> 33
 <211> 19
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<400> 33
 uuugaaaug uugaucucc 19

<210> 34
 <211> 19
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<400> 34
 ggagaucaac auuuucaaa 19

<210> 35
 <211> 20
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<400> 35
 uuugaaaug uugaucuccu 20

<210> 36

<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 36
cgagaggcgg acgggaccg

19

<210> 37
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 37
cgagaggcgg acgggaccgt t

21

<210> 38
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 38
ttgctctccg cctgccctgg c

21